

Authors

Richard L. Anderson

B.E.E., 1950; M.S. in Electrical Engineering, 1952, University of Minnesota; Ph.D. in Solid State Science and Technology, Syracuse University, 1960. Joined IBM in 1952. Was on leave of absence from 1954-1957; was instructor in Electrical Engineering at Syracuse University from 1955-1957; Adjunct Professor during 1957. Is engaged in semiconductor device research at the Poughkeepsie Research Laboratory. Has received a Fullbright award to lecture at the School of Sciences, University of Madrid for the 1960-61 term. Member of American Physical Society and Institute of Radio Engineers.

Walter E. Baker

M.A. in Physics, Oxford University, 1952. Was head of the Physics Department at St. John's School in England and later at St. Andrew's College in Canada. In 1957 joined IBM in the Semiconductor Department, Poughkeepsie Research Laboratory; is presently Technical Assistant to the Resident Manager. Is a member of the American Physical Society and Health Physics Society.

Robert T. Chien

B.S., Electrical Engineering, 1954; M.A., Mathematics, 1957, and Ph.D., Electrical Engineering, 1958, University of Illinois. From 1954 to 1958, was engaged in both teaching and research in such areas as network theory and propagation of microwaves in plasma on an assistantship. Joined the Engineering Science Department at the IBM Mohansic Research Laboratory in 1958. Has been working on linear graph theory and the theory of error-correcting codes. Is a member of Tau Beta Pi, Sigma Xi, Research Society of America, and the Institute of Radio Engineers.

D. M. James Compton

B.A. in Chemistry, 1951; D.Phil. 1954, Oxford University. Joined IBM in 1956 after Post-Doctoral Fellowship at the National Research Council of Canada, Ottawa, working on organic photoconductors. Is now engaged in research in semiconductor materials, Poughkeepsie Research Laboratory.

Wesley E. Dickinson

B.S.E.E., North Dakota State College, 1940; S.M.E.E., Massachusetts Institute of Technology, 1945. Joined IBM San Jose Research Laboratory in 1952. Formerly worked on the disk-file portion of the RAMAC and is now engaged in character-recognition and speech-recognition research. Is a member of Sigma Xi and AIEE.

Reinhard Glang

Cand. chem., 1951; Dipl. Chem. in physical chemistry, 1952, University of Greifswald, Germany. Dr. rer. nat. in physical chemistry, Technische Hochschule, Darmstadt, Germany, 1955. Joined IBM in 1960. From 1953 to 1957, chemist, DEGUSSA Hanau, Germany; 1958-59, physicist, Diamond Ordnance Fuze Laboratories, Washington, D. C. Former work was on oxide semiconductors, platinum metals, silicon, and germanium. Presently studying epitaxial growth of silicon at Kingston Engineering Laboratory, Federal Systems Division. Is member of the Electrochemical Society of America.

Herbert S. Ingham, Jr.

B.S. in Physics, 1953, Rensselaer Polytechnic Institute; M.S. in Physics, 1956, and Ph.D. in Physics, 1959, Carnegie Institute of Technology. Joined IBM in 1958 and has been engaged in studies of germanium crystal growth in the Semiconductor Department, Poughkeepsie Research Laboratory. Is a member of the American Physical Society and Sigma Xi.

B. William Kippenhan

B.S.E.E., 1952; M.S.E.E., 1953, University of Wisconsin. Joined IBM in 1953 at Poughkeepsie High Street Laboratory and worked on logical design of SAGE I Air Defense Computer Display Systems. Since 1956 has been in Advanced Component Development Group, Federal Systems Division, Kingston and is engaged in development of thin-film active components.

Robert E. McCurry

B.S. in Physics, Iowa State College, 1954; presently enrolled in Syracuse University Graduate Program. Joined IBM in October 1956. Worked on photoconductivity and properties of dielectrics. Presently engaged in advanced development of printing methods at the General Products Division Development Laboratory, Endicott.

Patricia J. McDade

A.B. in Physics, Vassar College, 1957. Joined IBM Poughkeepsie Research Laboratory in 1957 and is studying the physics of the iodide deposition process.

John C. Marinace

B.S. in Physics, 1949, University of Denver. Joined the General Electric Company, Schenectady, in 1949. Continued working in the semiconductor field after joining IBM Research Laboratory at Poughkeepsie in 1956. Member of Sigma Pi Sigma and the American Physical Society.

Wataru Mayeda

B.S. in Electrical Engineering, 1954, Utah State University; M.S. in Electrical Engineering, 1955, University of Utah; Ph.D. in Electrical Engineering, 1958, University of Illinois. Was Research Assistant in High-Speed Impact at the University of Utah, 1954-55; Research Assistant in Network Theory at the University of Illinois, 1955-58; Assistant Professor, Department of Electrical Engineering, University of Illinois, 1958-59. Joined IBM in 1959, research in network and communications problems at the Mohansic Research Laboratory. Is a member of Institute of Radio Engineers, Research Society of America, Sigma Xi, Phi Kappa Phi, Pi Mu Epsilon and Eta Kappa Nu.

John E. Meggitt

B.A., 1953; Ph.D. 1958, Cambridge. Read mathematics and did research in the quantum theory of fields. Was awarded the First Smith Prize at Cambridge in 1955 and elected into a Research Fellowship at Emmanuel College. Worked for A. V. Roe and Company on numerical machine tool control from 1956 to 1958. Joined IBM British Laboratory at Hursley, Winchester in 1958 and worked on error-correcting codes. Is currently engaged in designing a small computer using control matrix techniques.

Constantine M. Melas

B.S., 1951, Massachusetts Institute of Technology; M.S., 1954, University of California. Joined IBM in 1958 at the San Jose Research Laboratory. Is presently engaged in research on data transmission systems at the Advanced Development Division, San Jose. Member of the IRE.

M. Jacqueline O'Rourke

B.S. in Physics, 1956, University of Rhode Island. Joined IBM in 1956 and is engaged in semiconductor materials and device research at the Poughkeepsie Research Laboratory. Did graduate work at the Syracuse University during 1958. Is a member of American Physical Society.

Firooz Partovi

B.S. in Physics, 1958, Rensselaer Polytechnic Institute of Technology. Now studying at Massachusetts Institute of Technology toward the degree of Ph.D. in Physics. Joined IBM at Kingston for the summer of 1957, working on switching properties of magnetic films. Worked at Endicott Product Development Laboratory, (General Products Division), during the summers of 1958 and 1959 on the investigation of magnetic-field mapping and optical properties of thin films.

Roland M. Schaffert

A.B., 1930, Doane College, Crete, Nebraska; A.B., 1930, M.S., 1931, Ph.D., 1933, University of Cincinnati; Laws Fellow in Physics, 1930-33, University of Cincinnati. Assistant Professor of Physics at Duquesne Uni-

versity, 1934-36. Research physicist at Mergenthaler Linotype Company, 1936-41. Manager of Graphic Arts Research, Battelle Memorial Institute, 1941-56 and pioneered development of xerography. Joined IBM in 1956 in the Non-Mechanical Printing Department at the Endicott Laboratory. Is presently located at San Jose General Products Development Laboratory in the photo-data processing department. Received a certificate of merit from the Office of Scientific Research and Development while at Battelle Memorial Institute. Is a senior member of IRE, Fellow of AAAS, member of American Physical Society, Electrochemical Society of America, Society of Photographic Scientists and Engineers, member of Technical Association of Graphic Arts, Research and Engineering Council of Graphic Arts Industry. Is a registered Professional Engineer, Ohio.

John A. Swanson

S.B. in Physics, 1946 summa cum laude; A.M. in Physics, 1947, Harvard University. Joined IBM in 1951 after additional studies at Harvard and was engaged largely in work on theoretical solid state physics, at the Poughkeepsie Research Center. John Swanson died accidentally on January 6, 1960, while on vacation.

Rudolf E. Thun

Dr. phil. nat., 1955, University of Frankfurt, Germany. Joined IBM in 1959 at the Kingston Engineering Laboratory, Federal Systems Division. He previously worked as a research physicist at the U.S. Army Engineer Research and Development Laboratories, Ft. Belvoir. Before entering the United States in 1955, he was employed by DEGUSSA, Hanau, Germany. At Kingston he is presently directing a group working on the physical properties of thin films and thin film devices. During his stay at Ft. Belvoir, he received two Civil Service awards and the Commanding General's Medal for outstanding contributions to the Physical Sciences. Member of the Electron Microscope Society, Optical Society, Physical Society, Scientific Research Society, and Vacuum Society of America.

Edward E. Wajda

B.S. in Physics, Union College, 1945; M.S. in Physics, Cornell University, 1948; Ph.D. in Physics, Rensselaer Polytechnic Institute, 1953. Was Assistant Professor of Union College from 1953 to 1955. Joined IBM Poughkeepsie Research Laboratory, 1955, in semiconductor research and development. Is currently responsible for semiconductor device development and semiconductor materials technology in Federal Systems Division, Kingston. Is member of IRE and its Professional Group on Electron Devices, and of Sigma Xi.

William H. White

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